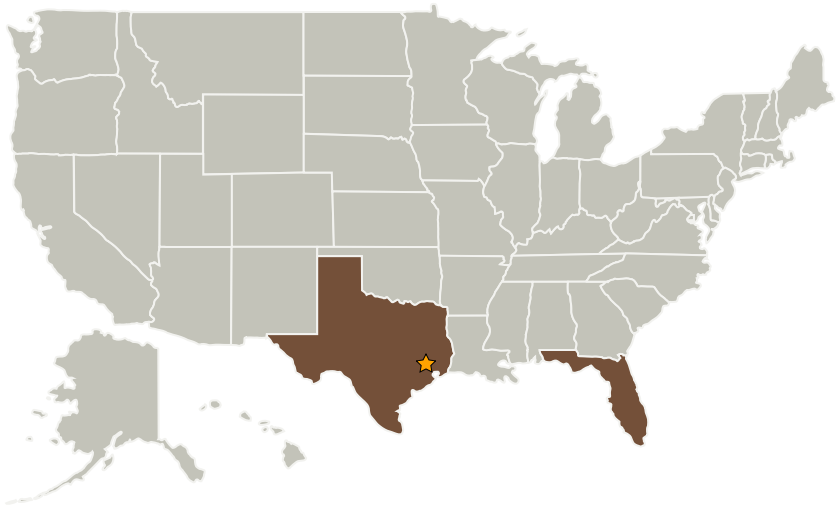
Deployable Virtual Teleconferencing Meeting Center, Phase I

Completed Technology Project (2004 - 2004)

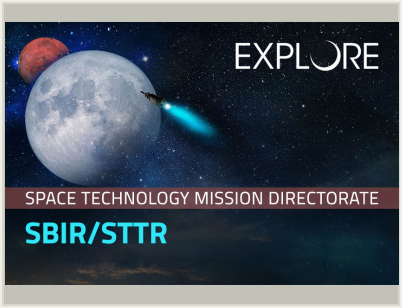
Project Introduction

The proposed research is indented to lead to the development of a commercial product that can create a virtual meeting presence by displaying the remote user?s face to achieve a presence. The goal is to render computer-generated objects and visualize them as real objects for the user, thus creating augmented reality system. The first step of achieving a virtual teleconference will be to capture the user?s face. Furthermore, we will use a head-mounted display (HMD) to project the other meeting attendees as if they are at the same location as the user while they are remotely located. A key difference between our proposed product and other efforts is that we offer means for 3D visualization at a cost effective desktop-level. Another key difference is that we offer mobile indoors and outdoors solution providing full face capturing capabilities without the requirement of many cameras (i.e. ?Sea of cameras? proposed by University of North Carolina for example) and is easily calibrated. Adastra Labs? vision for our final product is cost-effective deployable VTMC accessible for everyone.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas
Adastra Labs LLC	Supporting Organization	Industry	Orlando, Florida



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Johnson Space Center (JSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Primary U.S. Work Locations	
Florida	Texas

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Jannick P Rolland

Technology Areas

Primary:

- TX06 Human Health, Life Support, and Habitation Systems
  - TX06.2 Extravehicular Activity Systems
    - TX06.2.3 Informatics and Decision Support Systems